AMENDMENTS TO THE SPECIFICATION:

Please delete the paragraph on page 5, line 13 to line 27 and replace it with the following paragraph:

--According to the invention, p185 neu encoding sequences can be inserted in any plasmid vectors suitable for administration. Besides the encoding sequences, the plasmids can contain functional elements for transcription control, particular a promoter placed upstream of the encoding sequence, preferably the CMV promoter, start and stop transcription elements, selection markers, such as ampicillin or kanamicin resistance genes, CpG motifs, a polyadenilation site transcription activators. Transcription control elements should be compatible with the use of the vector in humans. In a preferred embodiment, the plasmids of the invention contain at least 4 CpG motifs, preferably at least 8, up to a maximum of 80. The CpG motifs (ATAATCGACGTTCAA) (SEQ ID NO: 43) of bacterial origin induce macrophages to secret IL-12, which in turn induce IFN gamma secretion by natural killer cells, thus activating a T helper lymphocyte-mediated response (Chu R. S. et al. 1997, J. Exp. Med. , 186: 1623). Therefore, the insertion of CpG motifs in plasmid sequences enhances the immune response .--

Please delete the paragraphs on page 20, line 9 to page 23, line 7 and replace them with the following paragraphs:

- --List of oligonucleotides synthesized and used for plasmid construction
- #1. AccIII-TAA-4CpG-erbB2 sense 71 nt (SEQ ID NO: 15)
- 5'CCGGAAGTAAATAATCGACGTTCAAATAATCGACGTTCAAAT

AATCGACGTTCAAATAATCGACGTTCAAT 3'

- #2. XbaI-TAA-4CpG-erbB2 antisense 71 nt (SEQ ID NO: 16)
- 5'CTAGATTGAACGTCGATTATTTGAACGTCGATTATTTGAACG
- TCGATTATTTGAACGTCGATTATTTACTT 3'
 - #3. AccIII-TAA-4noCpG-erbB2 sense 71 nt (SEQ ID NO: 17)
- 5'CCGGAAGTAAATAATAGAGCTTCAAATAATAGAGCTTCAAA

TAATAGAGCTTCAAATAATAGAGCTTCAAT 3'

- #4. XbaI-TAA-4noCpG-erbB2 antisense 71 nt (SEQ_ID_NO: 18)
- 5'CTAGATTGAAGCTCTATTATTTGAAGCTCTATTATTTGAA

GCT

- CTATTATTTGAAGCTCTATTATTTACTT 3'
- #5. HindIII-NheI sense 27nt (SEQ ID NO: 19)
- 5'CTAGGAAGCTTGTTTAACTTGCTAGCT 3'
- #6. HindIII-NheI antisense 27 nt (SEQ ID NO: 20)
- 5'AGCTAGCTAGCAAGTTAAACAAGCTTC 3'
- #7. XbaI-4CpG-neu sense 68 nt (SEQ ID NO: 21)
- 5'CTAGATAATCGACGTTCAAATAATCGACGTTCAAATAATCGA

CGTTCAAATAATCGACGTTCAAGTTT 3'

- #8. PmeI-CpG-neu antisense 64 nt (SEQ ID NO: 22)
- 5'AAACTTGAACGTCGATTATTTGAACGTCGATTATTTGAAC

GT

- CGATTATTTGAACGTCGATTAT 3'
- #9. XbaI-4noCpG-neu sense 68 nt (SEQ ID NO: 23)

- 5'CTAGATAATAGAGCTTCAAATAATAGAGCTTCAAATAATAG
- AGCTTCAAATAATAGAGCTTCAAGTTT 3'
 - #10. PmeI-4noCpG-neu antisense 64 nt (SEQ ID NO: 24)
- 5'AAACTTGAAGCTCTATTATTTGAAGCTCTATTATTTGAAGCT
- CTATTATTTGAAGCTCTATTAT 3'
- # 11. T7 primer (SEQ ID NO: 25)
- 5'TAATACGACTCACTATAGGG 3'
- #12. BstEII-neuleader antisense 32 nt (SEQ ID NO: 26)
- 5'GGCCGGTTACCCGCGATTCCGGGGGGCAGGAG 3'
- #13. hECD1-TM-sense-NheI 35 nt (SEQ ID NO: 27)
- 5'CCGGCTAGCTAGCCTGTCCTTCCTGCAGGATATCC 3'
- #14. hECD2-TM-sense-NheI 35 nt (SEQ ID NO: 28)
- 5'CCGGCTAGCTAGCGGAGGGGTCTTGATCCAGCGGA 3'
- #15. hECD3-TM-sense-NheI 35 nt (SEQ ID NO: 29)
- 5'CCGGCTAGCTAGCCTGCCCACTGACTGCCATG 3'
- #16. hECD4-TM-sense-NheI 35 nt (SEQ ID NO: 30)
- 5'CCGGCTAGCTGCCCCCTCGTCTGCCCCCTGC 3'
- #17. hECD5-TM-sense-NheI 35 nt (SEQ ID NO: 31)
- 5'CCGGCTAGCTAGCCCGCTCCAGCCAGAGCAGCTCC 3'
- #18. hECD6-TM-sense-NheI 35 nt (SEQ ID NO: 32)
- 5'CCGGCTAGCTAGCAACACCCACCTCTGCTTCGTGC 3'
- #19. hECD7-TM-sense-NheI 35 nt (SEQ ID NO: 33)
- CCGGCTAGCTAGCCCCAGGGAGTATGTGAATGCCA 3'
- #20. pcDNA3.1/BGH Reverse primer 20 nt (SEQ ID NO: 34)
- 5'TAGAAGGCACAGTCGAGGCT 3'

- #21. NheI-neuleader-antisense 43 nt (SEQ ID NO: 35)
- 5'CCGGCTAGCTAGCCGCGATTCCGGGGGGCAGGAGGGCGAGGAG 3'
- #22. His-myc-sense-noNheI 69 nt (SEQ ID NO: 36)
- 5'CTAGGCATCATCATCATCATAATGGTCATACCGGTGAAC
- AAAAACTCATCTCAGAAGAGGATCTGG 3'
- #23. His-myc-antisense-NheI 69 nt (SEQ ID NO: 37)
- 5'CTAGCCAGATCCTCTTCTGAGATGAGTTTTTGTTCACCGGTAT
- GACCATTATGATGATGATGATGATGC 3'
- #24. NheI-73neu antisense 35 nt (SEQ ID NO: 38)
- 5'CCGGCTAGCTAGCGCTGGCATTGGCAGGCACGTAG 3'
- #25. NheI-153neu antisense 35 nt (SEQ ID NO: 39)
- 5'CCGGCTAGCTAGCCAGGATCTCTGTGAGACTTCGA 3'
- #26. NheI-233neu antisense35 nt (SEQ ID NO: 40)
- 5'CCGGCTAGCTAGCGCCCTTGCACCGGGCACAACCA 3'
- #27. NheI-313neu antisense35 nt (SEQ ID NO: 41)
- 5'CCGGCTAGCTAGCTCCCACTTCCGTAGACAGGTAG 3'
 - #28. NheI-393neu antisense 35 nt (SEQ ID NO: 42)
 - 5'CCGGCTAGCTAGCAATGCCGGAGGAGGGGTCCCCA3'--